DOCUMENT RESUME

ED 232 639 IR 020 027

TITLE	Circulation (Organs). MicroSIFT Courseware Evaluation.
INSTITUTION	Northwest Regional Educational Lab., Portland, Oreg.
PUB DATE	81
NOTE	2p.; In its: MicroSIFT Courseware Evaluations (1-87), 1982. See ED 226 765.
PUB TYPE	Reports - Evaluative/Feasibility (142)
EDRS PRICE	MF01/PC01 Plus Postage.
DESCRIPTORS	*Cardiovascular System; *Computer Assisted Instruction; *Computer Programs; Drills (Practice); Educational Games; Intermediate Grades; Microcomputers; *Science Instruction; Secondary Education
IDENTIFIERS	Apple II Plus; Courseware Evaluation; Microcomputer Software and Info for Teachers; PF Project; Software Evaluation; *Software Reviews

ABSTRACT

THE FOLLOWING IS THE FULL TEXT OF THIS DOCUMENT (Except for the Evaluation Summary Table): PRODUCER: Micro Power and Light Company, Keystone Park, Suite 1108, 13773 N. Central Expressway, Dallas, TX 75243. LOCAL DISTRIBUTORS: Contact producer for list. EVALUATION COMPLETED: Fall 1981. VERSION: Apple II. COST: $29.95. ABILITY LEVEL: Grades 5-12. SUBJECT: Science: human circulatory system. MEDIUM OF TRANSFER: 5" flexible disk. REQUIRED HARDWARE: 32K Apple II Plus, one disk drive, color monitor. REQUIRED SOFTWARE: DOS 3.2, Applesoft. INSTRUCTIONAL PURPOSE: Standard instruction, enrichment. INSTRUCTIONAL TECHNIQUES: Drill and practice, tutorial, game. DOCUMENTATION AVAILABLE: Suggested grade/ability level, instructional objectives, program operating instructions, teacher's information. INSTRUCTIONAL OBJECTIVES: To teach the functions of the organs of the circulatory system. INSTRUCTIONAL PREREQUISITES: Teacher should go through the instructional cycle with the student prior to using. Students need a 3rd grade reading ability and some instruction in health or science at Grades 3 or 4. CONTENT AND STRUCTURE: The program teaches the functions of the heart, blood, arteries, capillaries, veins and lungs. The student has a choice of three instructional modes: tutorials with animated sequences, true-false quizzes and a time limit. Tutorial sequences are short and provide opportunities for the user to review the animations which are used to illustrate specific concepts. Tutorials include quizzes on previous lessons. ESTIMATED STUDENT TIME REQUIRED: Not available. POTENTIAL USES: The program could be used to review science or health related topics, or for free time enrichment. It may also be used effectively as a resource center activity where students rotate through stations, or it could be the focus of a class exercise with teams competing for points. MAJOR STRENGTHS: Computer responses are "friendly." Correct answer is given if student gives an incorrect answer. The program is designed for easy entry and exit. The student can bypass previously studied material. There is plenty of opportunity for review. User controls rate of learning. Content is segmented into small units. MAJOR WEAKNESSES: Use of blue color to represent lungs and cells that have received oxygen deviates from the usual color scheme. The option for students to play a game without going first to an instruction mode is presented too early. Students tend to go directly to the game option, later finding they cannot be successful if they skipped the instruction section. EVALUATION SUMMARY: Evaluators indicate they would use or recommend use of this package with little or no change. (Author)

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Circulation (Organs)

PRODUCER: Micro Power and Light Company
Keystone Park, Suite 1108
13773 N. Central Expressway
Dallas, TX 75243

LOCAL DISTRIBUTORS: Contact producer for list

EVALUATION COMPLETED: Fall 1981

VERSION: Apple II

COST: $29.95

ABILITY LEVEL: Grades 5-12
SUBJECT: Science: human circulatory system
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DOCUMENTATION AVAILABLE: Suggested grade/ability level, instructional objectives, program operating instructions, teacher's information

INSTRUCTIONAL OBJECTIVES: To teach the functions of the organs of the circulatory system.

INSTRUCTIONAL PREREQUISITES: Teacher should go through the instructional cycle with the student prior to using. Students need a 3rd grade reading ability and some instruction in health or science at Grades 3 or 4.

CONTENT AND STRUCTURE: The program teaches the functions of the heart, blood, arteries, capillaries, veins and lungs. The student has a choice of three instructional modes: tutorials with animated sequences, true-false quizzes, and car race games using true-false questions and a time limit. Tutorial sequences are short and provide opportunities for the user to review the animations which are used to illustrate specific concepts. Tutorials include quizzes on previous lessons.

ESTIMATED STUDENT TIME REQUIRED: Not available

POTENTIAL USES: The program could be used to review science or health related topics, or for free time enrichment. It may also be used effectively as a resource center activity where students rotate through stations, or it could be the focus of a class exercise with teams competing for points.

MAJOR STRENGTHS: Computer responses are "friendly." Correct answer is given if student gives an incorrect answer. The program is designed for easy entry and exit. The student can bypass previously studied material. There is plenty of opportunity for review. User controls rate of learning. Content is segmented into small units.

MAJOR WEAKNESSES: Use of blue color to represent lungs and cells that have received oxygen deviates from the usual color scheme. The option for students to play a game without going first to an instruction mode is presented too early. Students tend to go directly to the game option, later finding they cannot be successful if they skipped the instruction section.

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EVALUATION SUMMARY

SA	A	D	SD	NA	
	•				Content is accurate.
•					Content has educational value.
•					Content is free of stereotypes.
	•				Purpose of package is well defined.
	•				Package achieves defined purpose.
	•				Content presentation is clear and logical.
	•				Difficulty level is appropriate to audience.
	•				Graphics/sound/color are used appropriately.
	•				Use of package is motivational.
	•				Student creativity is effectively stimulated.
•					Feedback is effectively employed.

SA	A	D	SD	NA	
•					Learner controls rate and sequence.
	•				Instruction integrates with prior learning.
	•				Learning can be generalized.
	•				User support materials are comprehensive.
	•				User support materials are effective.
	•				Information displays are effective.
•					Users can operate easily and independently.
•					Teachers can employ package easily.
	•				Computer capabilities are used appropriately.
•					Program is reliable in normal use.

SA - Strongly Agree A-Agree D-Disagree SD - Strongly Disagree NA - Not Applicable

Evaluators indicate they would use or recommend use of this package with little or no change.

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This evaluation is based on the evaluations of three or more reviewers who are representative of potential users of the courseware package.

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